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due not only to the efforts of the missionaries to gather their flock into larger pueblos, . . . but also to the danger to which the Indians were exposed from the Apaches of the 'Perrillo' and the 'Gila,' as the southern bands of that restless tribe were called."⁵ Coronado found the country of the Taño (between Santa Fe and the Galisteo basin) almost depopulated on account of depredations of the Teya, a warlike tribe of the plains, sixteen years previously. He found Galisteo to be a small, strong village; the Pueblo de los Silos large, but almost abandoned; and another, farther eastward, abandoned and in ruins. Also between that time and Espejo's visit in 1583 they (the Taño) were compelled to abandon three more of their villages on account of raids of these same plains savages.⁶ A short time after the destruction of the mission at Walpi in the revolt of 1680, impelled by fear of vengeance on the part of the Spaniards, as well as by the increasing attacks of the Apache, Navajo, and Ute, the village was removed to the top of the rocky mesa where it now stands.⁷ "Chukubi was occupied by the Squash, Sand and other clans of the Hopi, who were afterwards joined by the Spider clan. Being harassed by enemies, among them the Ute and the Apache, it was abandoned, its inhabitants, joining those of old Mashongnoyi in building the present Mashongnoyi pueblo."⁸ Also the whole group of Salina pueblos of the Piro east of the Rio Grande are known as the "Cities that died of fear," far in historic times, owing to Apache depredations.⁹ And so on. For the same reasons and in the same manner were the villages and cliff dwellings of northeastern Arizona abandoned.

A List of the Cicadellidæ of Kansas.

P. B. LAWSON.

In the fall of 1919 the writer completed a paper on the leafhoppers of the state of Kansas. As stated in the introduction to that paper, only those species were included in the fauna of the state that were represented in the Snow collections or concerning the finding of which the writer had no doubt. At that time the Crevecoeur collection had not been studied, nor was the list of species in the collection of the Kansas State Agricultural College fully incorporated. In addition it was thought that records of other collectors would add to the number in the list.

Since that paper went to press the writer has had the privilege of examining the Crevecoeur collection, has obtained a full list of species in the collection of the Agricultural College, and has obtained the records of additional species taken in the state by Prof. Herbert Osborn. Species included from these sources are so indicated by the parentheses following the names. The following list, therefore, I think, will be an accurate record of all the leafhoppers hitherto taken in Kansas, for it includes species hitherto unrecorded, and eliminates others which though previously recorded were seemingly wrongly determined and hence should not have been placed on the Kansas list.

5. Handbook of American Indians, vol. 2, p. 261.

6. Idem., p. 686.

7. Idem., p. 901.

8. Idem., vol. 1, p. 295.

9. Idem., vol. 1, p. 6, under the topic "Abo."

Subfamily BYTHOSCOPINÆ (Dohrn).

- Agalliopsis novella* (Say).
Agallia 4-punctata (Prov.).
Agallia constricta Van D.
Aceratagallia sanguinolenta (Prov.).
Aceratagallia uhleri (Van D.).
Aceratagallia cinerea (O. & B.).
Idiocerus snowi G. & B.
Idiocerus moniliferæ O. & B.
Idiocerus ramentosus (Uhl.) [K. S. A. C.]
Idiocerus alternatus Fh.
Idiocerus verticis (Say).
Idiocerus suturalis Fh.
Idiocerus pallidulus Fh.
Idiocerus duzei Prov.
Idiocerus nervatus Van D.
Idiocerus provancheri Van D. [K. S. A. C.]
Idiocerus fitchi Van D. [K. S. A. C.]
Bythoscopus apicalis (O. & B.)
Macropsis trimaculata (Fh.).
Macropsis suturalis (O. & B.).
Macropsis erythrocephala (G. & B.).
Macropsis viridis (Fh.).
Macropsis gleditschiæ (O. & B.).
Macropsis tristis (Van D.). [Crev.]
Oncopsis distinctus (Van D.).

Subfamily CICADELLINÆ Van D.

- Oncometopia undata* (Fabr.).
Oncometopia lateralis (Fabr.).
Oncometopia lateralis var. *limbata* (Say).
Aulacizes irrorata (Fabr.).
Cicadella hieroglyphica (Say).
Cicadella hieroglyphica var. *dolobrata* (Ball).
Cicadella hieroglyphica var. *uhleri* (Ball).
Cicadella gothica (Sign.).
Kolla bifida (Say).
Kolla geometrica (Sign.).
Kolla hartii (Ball).
Helochara communis Fh.
Graphocephala coccinea (Forst.).
Graphocephala versuta (Say).
Dræculacephala mollipes (Say).
Dræculacephala angulifera (Walk.).
Dræculacephala minor (Walk.). [K. S. A. C.]

Subfamily GYPONINÆ (Stal.).

- Penthimia americana* Fh.
Gypona 8-lineata (Say).
Gypona melanota Spangb.

Gypona pectoralis Spangb.
Gypona puncticollis Spangb.
Gypona cinerea Uhl.
Xerophlæa viridis (Fabr.).
Xerophlæa major Bak. [K. S. A. C.]

Subfamily JASSINÆ (A. & S.).

Stroggylocephalus agrestis (Fall.) [Osb.]
Memnonia consobrina Ball. [Osb.]
Memnonia fraterna Ball.
Xestocephalus pulicarius Van D.
Xestocephalus superbus (Prov.).
Nionia palmeri (Van D.).
Dorycephalus platyrhynchus Osb.
Dorycephalus vanduzei O. & B.
Hecalus lineatus (Uhl.).
Spangbergiella vulnerata (Uhl.).
Spangbergiella mexicana Bak.
Parabolocratrus viridis (Uhl.).
Parabolocratrus flavidus Sign.
Dicyphonia ornata (Bak.).
Scaphoideus auronitens Prov.
Scaphoideus scalaris Van D.
Scaphoideus productus Osb.
Scaphoideus consors Uhl. [Tuck.]
Scaphoideus intricatus Uhl.
Scaphoideus immistus (Say).
Scaphoideus melanotus Osb.
Scaphoideus cinerosus Osb.
Flatymetopius dorsalis Ball.
Flatymetopius acutus (Say).
Flatymetopius cinereus O. & B.
Flatymetopius frontalis Van D.
Flatymetopius scriptus Ball.
Flatymetopius fuscifrons Van D. [Crev.]
Deltocephalus albidus O. & B.
Deltocephalus abbreviatus O. & B. [Osb.]
Deltocephalus areolatus Ball.
Deltocephalus imputans O. & B.
Deltocephalus visendus Crmb.
Deltocephalus inflatus O. & B.
Deltocephalus reflexus O. & B.
Deltocephalus sayi (Fh.).
Deltocephalus signatifrons Van D.
Deltocephalus minimus O. & B.
Deltocephalus parvulus Gill.
Deltocephalus debilis Uhl.
Deltocephalus collinus Boh.
Deltocephalus affinis G. & B.
Deltocephalus oculatus O. & B.

- Deltocephalus sylvestris* O. & B.
Deltocephalus flavicosta Stal.
Deltocephalus weedi Van D.
Deltocephalus obtectus O. & B.
Deltocephalus inimicus (Say).
Deltocephalus osborni Van D.
Deltocephalus balli Van D.
Deltocephalus sonorus Ball.
Deltocephalus pectinatus O. & B.? [Osb.]
Deltocephalus ocellaris (Fall.)
Deltocephalus fuscinervosus Van D. [K. S. A. C.]
Deltocephalus vanduzei G. & B. [K. S. A. C.]
Deltocephalus compactus O. & B. [Crev.]
Lonatura nebulosa Ball.
Aconura robusta (Bak.).
Aconura argenteolus (Uhl.).
Driotura gammaroidea (Van D.).
Driotura gammaroidea var. *fulva* Ball.
Driotura robusta O. & B.
Euscelis magnus (O. & B.).
Euscelis exitiosus (Uhl.).
Euscelis striolus (Fall.).
Euscelis parallelus (Van D.).
Euscelis extrusus (Van D.).
Euscelis uhleri (Ball).
Euscelis anthracinus (Van D.).
Euscelis striatulus (Fall.).
Euscelis comma (Van D.).
Euscelis curtisii (Fh.).
Euscelis bicolor (Van D.).
Euscelis obtutus (Van D.).
Eutettix pictus Van D.
Eutettix tenellus (Bak.).
Eutettix seminudus (Say).
Eutettix strobi (Fh.).
Eutettix cinctus O. & B.
Eutettix albidus (Ball).
Mesamia nigradorsum Ball.
Mesamia straminea (Osb.).
Mesamia coloradensis (G. & B.).
Phlepsius majestus O. & B.
Phlepsius spatulatus Van D.
Phlepsius areolatus Bak.
Phlepsius superbus Van D.
Phlepsius excultus (Uhl.).
Phlepsius decorus O. & B.
Phlepsius ovatus Van D.
Phlepsius franconianus Ball. [Osb.]
Phlepsius lascivius Ball.

- Phlepsius altus* O. & B.
Phlepsius incisus Van D.
Phlepsius turpiculus Ball.
Phlepsius irroratus (Say).
Phlepsius truncatus Van D.
Phlepsius lobatus Osb.
Phlepsius collitus Ball.
Phlepsius cinereus Van D.
Phlepsius punctiscriptus Van D.
Phlepsius apertus Van D.
Phlepsius fulvidorsum (Fh.).
Phlepsius nebulosus Van D.
Phlepsius solidaginis (Walk.).
Acinopterus acuminatus Van D.
Acinopterus acuminatus var. *viridis* Ball.
Thamnotettix kennicotti (Uhl.).
Thamnotettix brittoni Osb.
Thamnotettix clitellarius (Say).
Thamnotettix longulus G. & B.
Thamnotettix melanogaster (Prov.).
Thamnotettix ciliatus Osb.
Thamnotettix fitchii Van D.
Thamnotettix pallidulus Osb.
Thamnotettix nigrifrons (Forbes).
Thamnotettix inornatus Van D. [Tuck.].
Chlorotettix necopinus Van D.
Chlorotettix spatulatus O. & B.
Chlorotettix unicolor (Fh.).
Chlorotettix viridius Van D.
Chlorotettix balli Osb.
Chlorotettix lusorius (O. & B.). [Tuck.].
Chlorotettix tergatus (Fh.).
Chlorotettix vividus Crmb.
Chlorotettix galbanatus Van D.
Chlorotettix tunicatus Ball.
Jassus olitorius Say.
Neocælidia tumidifrons G. & B.
Cicadula punctifrons (Fall.).
Cicadula punctifrons var. *repleta* Fieb.
Cicadula variata (Fall.).
Cicadula lepida Van D.
Cicadula sexnotata (Fall.).
Balclutha punctata (Thunb.).
Balclutha impicta (Van D.).
Eugnathodus abdominalis (Van D.).
Alebra albostriella (Fall.).
Alebra albostriella var. *fulveola* (H. S.).
Dikraneura abnormis (Walsh).
Dikraneura flavipennis (Zett.). [Tuck.]

Dikraneura fieberi (Loew).
Empoasca trifasciata Gill.
Empoasca obtusa Walsh.
Empoasca albolinea Gill.
Empoasca alboneura Gill.
Empoasca mali (LeB.).
Empoasca flavescens (Fabr.).
Empoasca aureoviridis (Uhl.). [K. S. A. C.]
Empoasca viridescens Walsh. [Tuck.]
Typhlocyba rosæ (Linn.).
Typhlocyba querci var. *gillettei* Van D.
Hymetta trifasciata (Say).
Erythroneura tricineta Fh.
Erythroneura basilaris (Say).
Erythroneura rubroscuta (Gill.).
Erythroneura illinoiensis (Gill.).
Erythroneura maculata (Gill.).
Erythroneura scutelleris (Gill.).
Erythroneura crevecœuri (Gill.).
Erythroneura comes (Say).
Erythroneura comes var. *vitifex* Fh. [K. S. A. C.]
Erythroneura comes var. *ziczac* Walsh.
Erythroneura comes var. *vitis* (Harr.).
Erythroneura comes var. *infuscata* (Gill.).
Erythroneura comes var. *coloradensis* (Gill.).
Erythroneura comes var. *octolineata* Walsh. [Tuck.]
Erythroneura obliqua (Say).
Erythroneura obliqua var. *nævus* (Gill.).
Erythroneura dorsalis (Gill.).
Erythroneura fumida (Gill.).
Erythroneura vulnerata Fh.
Erythroneura nigra (Gill.).

A List of the Grasses of Douglas County.

P. B. LAWSON.

While studying the leafhoppers of the state of Kansas the writer became interested in the grasses upon which these insects were found and in the seemingly large number of species that occurred within the boundaries of a single county.

This led to a study of the local flora in the field and to a simple study of the literature dealing with the records of the plants found in the county. The latter study revealed the fact that in late years very little work has been done in Kansas along this line, though in earlier years Prof. James Carruth, of the State University, and Professors Kellerman and Hitchcock, of the State Agricultural College, published several lists of the grasses found in the different parts of the state.